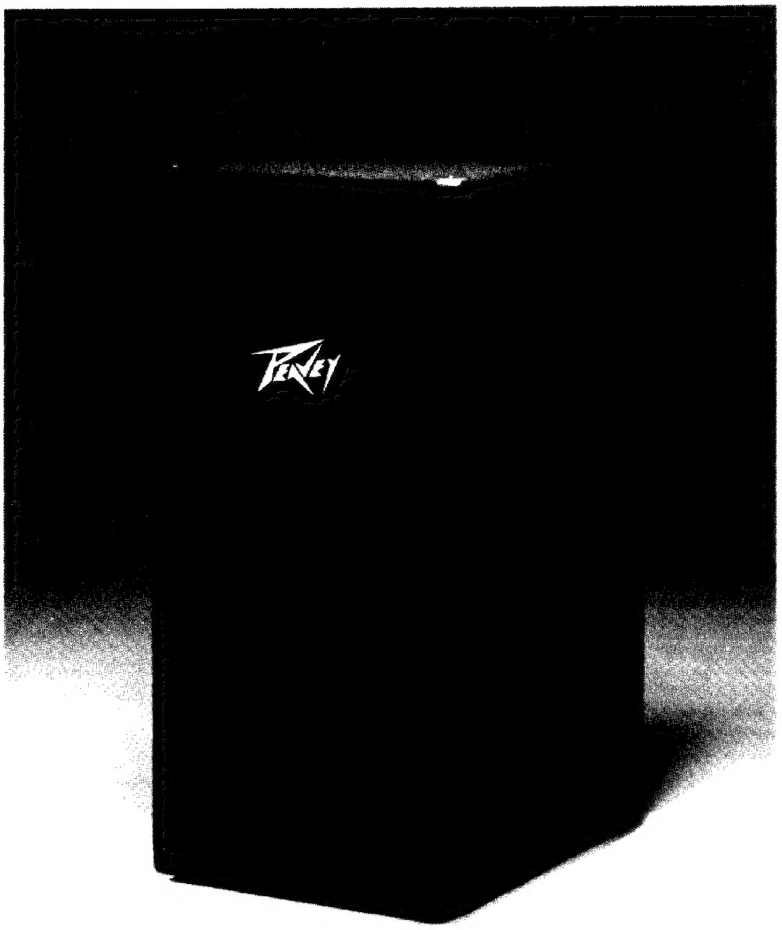
SPECS

PEAVEY ELECTRONICS

DTH™ 1
Enclosure
SPECIFICATIONS



Frequency Response:
115 Hz - 15 kHz

Low Frequency Limit (-3 dB point):
115 Hz

Useable Low Frequency Limit (-10 dB point):
70 Hz

Power Handling:
Full range 300 watts continuous (34 Volts 4 ohms)
Full range 600 watts program
Biamp lows 300 watts 34 V 4 ohms continuous
Biamp lows 600 watts program
Biamp highs 80 watts 25 V 8 ohms continuous
Biamp highs 160 watts program

Sound Pressure Level 1 Watt at 1 Meter Swept Sine Input in Anechoic Environment:
Biamp low mids 103 dB, 10" Scorpion®
Biamp highs 110 dB, 44T, VHF Array
Full range 103 dB

Maximum Sound Pressure Level:
126 dB full range

Transducer Complement:
Two 10" Scorpion Plus mid range, one 44T highs, One 4 element VHF array

Crossover Frequency:
1200 Hz/10 kHz

Crossover Type:
2nd order Bessel

Crossover Slope:
12 dB/oct

Impedance (Nominal):
Biamp mids 4 ohms
Highs 8 ohms
Full range 4 ohms

Input Connections:
4-pin Neutrik (NL4MP) mates to NL4FC to banana plugs

Enclosure Materials and Finish:
High density plywood, carpet covered, steel corners

Dimensions:
45" H x 21¼" W x 26¼" D

Net Weight: 180 lbs.

Shipping Weight: 186 lbs.

FEATURES
- Two 10" Scorpion Plus drivers
- 44T driver
- Full range or biamp configuration
- Durable black carpet
- Steel corners

DESCRIPTION

The DTH 1 is a low mid to very high frequency enclosure with a nominal coverage geometry of 60º x 40º. The driver complement consists of two 10" Scorpion Plus drivers, one 44T driver, and one four element VHF horn.

The DTH 1 can be operated in full range or biamp mode via a four pin Speakon® connector and an internal switch. It can be used as low as 75 Hz for side fills. For optimum operations, the DTH™ Sub is recommended for a -3 dB point of 45 Hz. This system can be configured in biamp with a recommended crossover at 125 Hz or in triamp mode with recommended crossovers at 125 Hz and 1200 Hz.

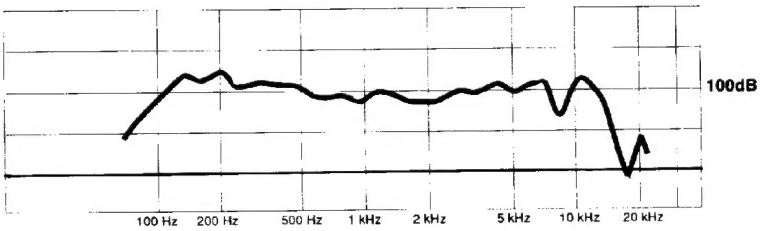
The DTH 1 cabinet is constructed of durable dado fitted wood for road worthiness. It is covered in a durable black carpet to resist scuffs and fitted with steel corners as insurance against corner splitting resulting from road use. The mid band horns are an integral part of the cabinet construction to give them an extra measure of robustness. Size, price, and great sound make the DTH 1 an irresistible bargain.

DIRECTIVITY

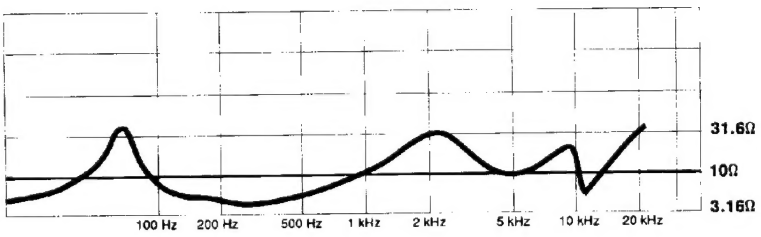
Beamwidth and directivity factors are derived from the -6 dB points from the polar plots which are measured in a whole space anechoic environment. These are specifications which provide a reference to the coverage characteristics of the enclosure. These parameters provide insight for proper enclosure placement and installation in the chosen environment. The blending of the components of the DTH 1 exhibits a desirable beamwidth and directivity factor suitable for all high-level sound reinforcement applications.

FREQUENCY RESPONSE

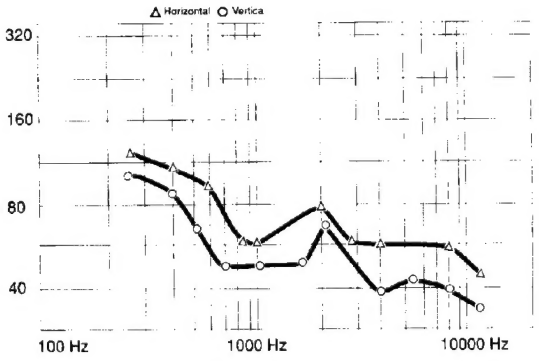
This measurement is useful in determining how accurately a given enclosure reproduces an input signal. The frequency response of the DTH 1 is measured at 1 meter using a 2 V swept sine input. The selected drivers in the DTH 1 combine to give a smooth frequencySresponse from 115 Hz to 15 kHz.



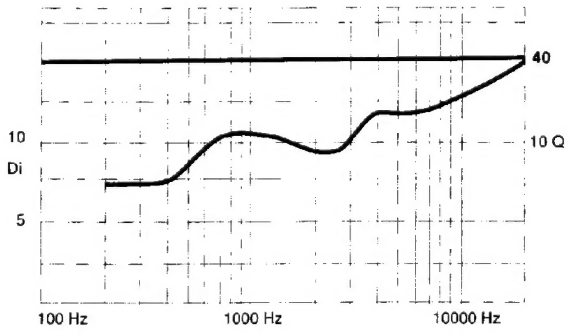
Anechoic: Frequency Response Curve Full Range



Impedence Curve Full Range

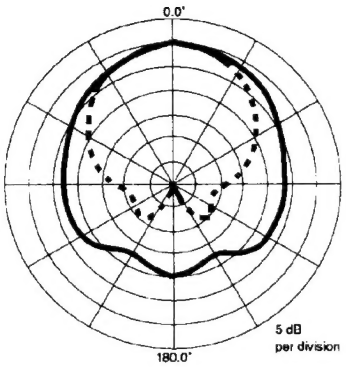


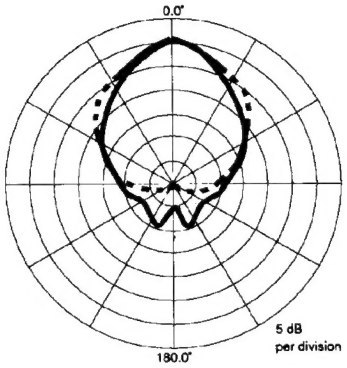
Beamwidth vs. Frequency

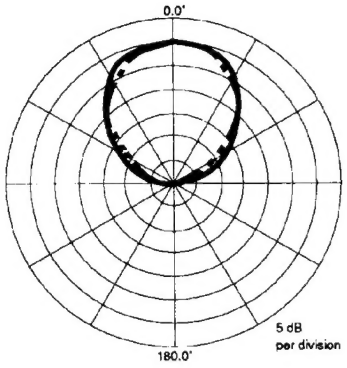


Directivity

HORIZONTAL





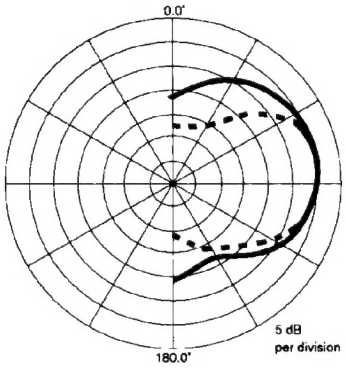


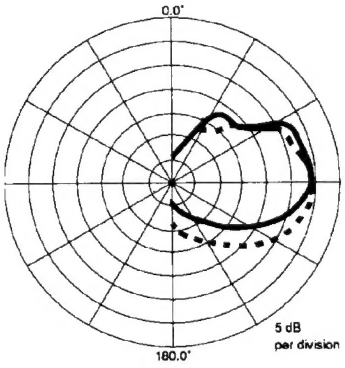
250Hz
500 Hz

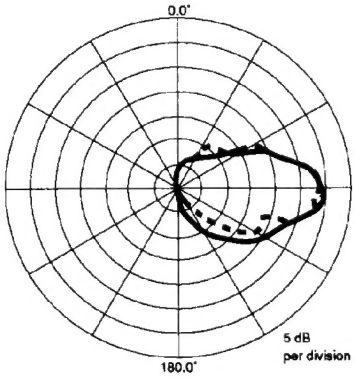
1 Hz
2 Hz

4 Hz
8 Hz

VERTICAL







POLAR PATTERNS

PEAVEY DTH™ 1

A PRODUCT OF PEAVEY ELECTRONICS CORP.
MERIDIAN, MS MADE IN U.S.A.

FULL RANGE	LOWS	HIGHS
600W RMS (PROGRAM) 4 OHMS 49V RMS	600W RMS (PROGRAM) 4 OHMS 49V RMS	160W RMS (PROGRAM) 8 OHMS 35.7V RMS
300W RMS (CONTINUOUS) (34.6V RMS Cont.)	300W RMS (CONTINUOUS) (34.6V RMS Cont.)	80W RMS (CONTINUOUS) (25.3V RMS Cont.)

CAUTION

DO NOT USE THIS UNIT IN BI-AMP MODE WITHOUT MOVING INTERNAL JUMPERS. DIRECTIONS ON CROSS-OVER CIRCUIT BOARD.

FULL RANGE

PIN 1+
PIN 1-
PIN 2+
PIN 2-

BI-AMP

PIN 1+ LOW
PIN 1- LOW
PIN 2+ MID/HIGH
PIN 2- MID/HIGH

WARNING

THIS SPEAKER SYSTEM CAN PERMANENTLY DAMAGE HEARING! USE EXTREME CARE SETTING MAXIMUM LOUDNESS!

POWER HANDLING

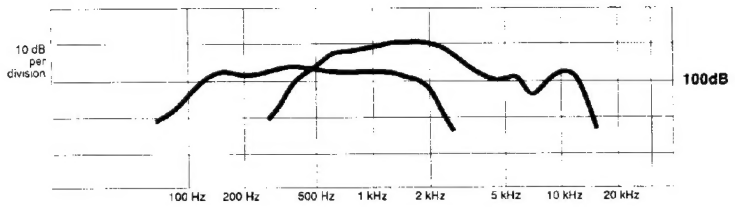
There are many different approaches to power handling ratings. Peavey rates this speaker system's power handling using a modified form of the AES Standard 2-1984. Utilizing audio band (20 Hz-20 kHz) pink noise with peaks over four times the RMS level, this strenuous test signal assures the user that every portion of this system can withstand today's high technology music. The test signal contains large amounts of very low frequency energy, effectively simulating the frequency content of live music situations. The full measure of high frequencies in the test signal allow for exposure of the speaker system to synthesized tone that may extend beyond audibility. This rating is contingent on having a minimum 3 dB of amplifier headroom available.

ARCHITECTURAL & ENGINEERING SPECIFICATIONS

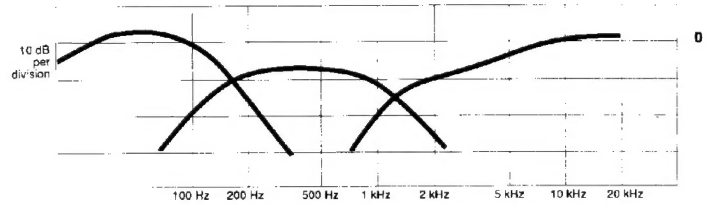
The loudspeaker system shall have an operating bandwidth of 115 Hz to 15 kHz. The output level shall be 103 dB when measured at a distance of one meter with an input of one watt. The nominal impedance shall be 4 ohms. The continuous power handling shall be 300 watts, maximum program power of 600 watts, with a minimum amplifier headroom of 3 dB. The nominal radiation geometry shall be 60 degrees in the horizontal plane and 40 in the vertical plan. The outside dimensions shall be 21¼" wide by 45" high by 26¼" deep. The weight shall be 180 pounds. The loudspeaker system shall be a Peavey model DTH 1.

ONE YEAR LIMITED WARRANTY —

NOTE: For details, refer to the warranty statement. Copies of this statement may be obtained by contacting Peavey Electronics Corporation, P. O. Box 2898, Meridian, Mississippi 39302-2898.

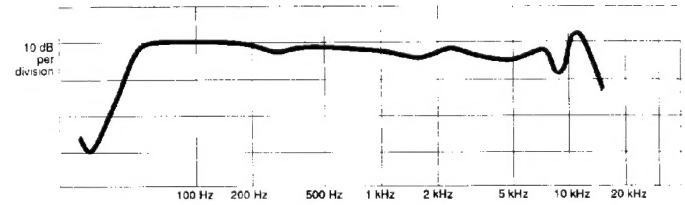


DTH1 Low: High Band Curves
Bi-Amp Mode: User must set crossover for mid to high point



Recommended cross-over setting for DTH Sub and DTH 1 Triamp mode.

	Level	Crossover Point	EQ	Delay
Lows:	0 dB	125 Hz	None	.7 ms
Mids:	-11 dB	125/1200 Hz	None	0
Highs:	+.5 dB	1200 Hz	12 dB Horn EQ	.5 ms



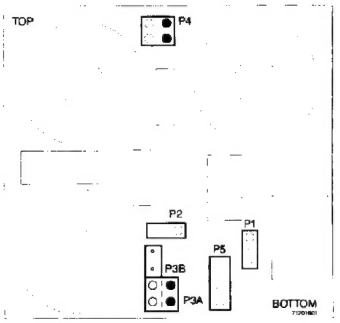
Anechoic System curve of DTH 1 and Sub with recommended crossover points, delay settings, and level settings

INSTRUCTIONS for BI-AMP and FULL RANGE CONNECTIONS

BI-AMP MODE
Move P1 to P2 (Yellow & Blue Wires)
Move P3A to P4 (Red Square Jumpers)
Move P5 to P3B (Yellow, Blue, Red and Black Wires)

FULL RANGE OPERATION
Reverse order of Bi-Amp Operation
Example: Move P3B to P5 etc.

NOTE:
P3A Jumper wires should be parallel to bottom of board



Features and specifications subject to change without notice.

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